

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 56167305  
PUBLICATION DATE : 23-12-81

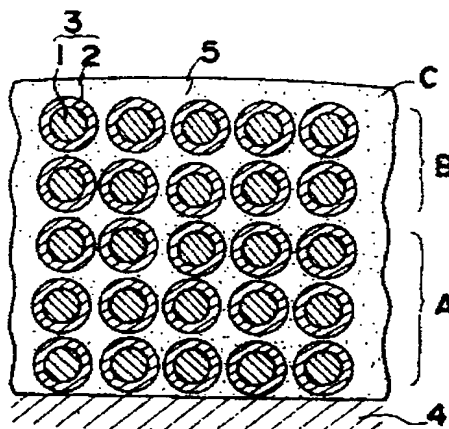
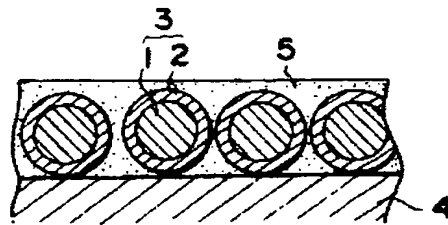
APPLICATION DATE : 28-05-80  
APPLICATION NUMBER : 55071124

APPLICANT : FUJIKURA LTD;

INVENTOR : USUKI RYUKICHI;

INT.CL. : H01F 5/06 H01F 27/32 H02K 3/30

TITLE : HEAT RESISTANCE INSULATING COIL



**ABSTRACT :** PURPOSE: To obtain coils having high heat and shock resistance by forming coils by using conductors covered with compound sealing layers consisting of inorganic powder and silicon resin wherein silicon resin or a wire fixing material layer mixed the silicon resin and inorganic powder having high melting point is filled in the space sections among the coils and the surface section except the coils to compose all insulators in ceramic shape at high temperatures.

CONSTITUTION: Compound sealing layers 2 consisting of inorganic powder such as glass powder, alumina or the like and silicon resin are covered and coated on the surfaces of conductors 1 consisting of copper wires, aluminium wires or the like and the layers are wound in coil shape. Next, silicon resin or a wire fixing material layer 5 containing pretreated inorganic powder mixed silicon resin by silane, alkylsilicate or the like is filled in the spaces among the layers 2 and at least a part of the surface except the layers.

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